REQUIREMENTS FOR POLARIZING MICROSCOPE

1. The microscope must have an infinity corrected optical system to allow polarizing intermediate attachments and multi-view attachments to be stacked without changing magnification or degrading the image.

2. The light path of the microscope from illuminator to front surface mirror must be totally independent of in-base electronics and must be sealed against dust to guard against fungal growth.

3. All objectives must support super widefield applications and have industry standard RMS threads to permit universal interchange of optics from other microscopes. The eyepieces must be at least 22mm to support our applications.

4. The eyepoint of the eyepieces must be at least 18.7mm to accommodate users with eye glasses.

5. The microscope must have accessories for orthoscopic polarized light including the potential for 360° rotatable analyzer and polarizer. It must have a nosepiece with individually centerable objective mounts and provide access for compensator plates.

6. The objectives must constructed of strainfree optical glass and optical epoxies and have Fluorite (Semi-Apochromatic) corrections with corresponding numerical apertures.

7. The microscope must have built-in daylight compensation and neutral densisty filters in order to facilitate constant color temperature for photography and keep illumination levels to within acceptable levels for users.

8. The microscope must have focus controls on both the left and right sides of the stand to accommodate left and right handed users.